SAMSUNG

ELECTRONICS

AH-01751K

SAMSUNG

# Digital Surround AV Receiver System

# *HT-AS601*

## Instruction Manual

# Safety Warnings

CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

This symbol alerts you to important operating and maintenance instructions accompanying the unit.

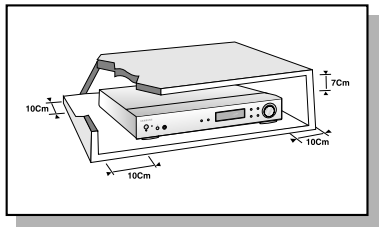
WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

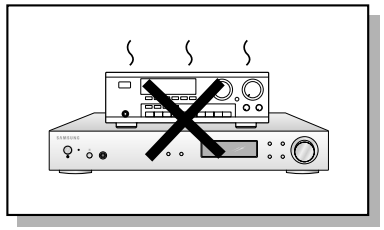
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.



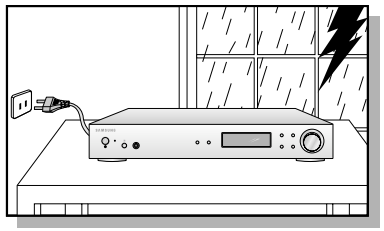
# Precautions



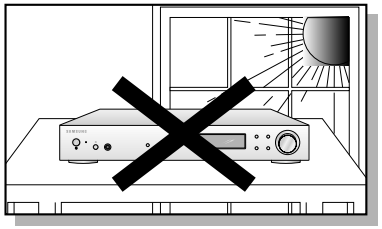


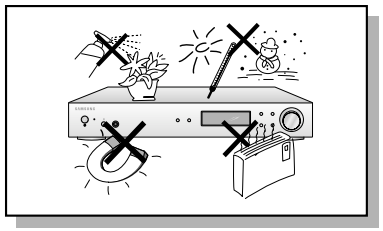
Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4inches). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect AC main plug from the wall outlet.
Voltage peaks due to lightning could damage the unit.



Do not expose the unit to direct sunlight or other heat sources.
This could lead to overheating and malfunction of the unit.

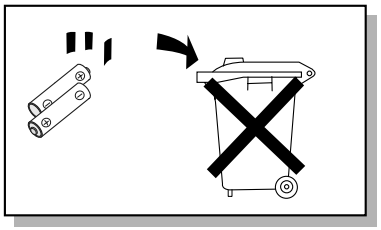


Protect the player from moisture(i.e. vases) , and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use.

Use of this product is for personal use only.

Condensation may occur if your player or disc have been stored in cold temperatures.

If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The battery used with this product contain chemicals that are harmful to the environment.

Do not dispose of batteries in the general household trash.

# Features

### Dolby Pro Logic ll x

Dolby Pro Logic ll x is a new type of multiple channel audio signal decoding method that improves upon existing Dolby Pro Logic.

### DTS 96/24

DTS is the surround format implementing 5.1 channel multi channel sounds at 96KHz/24bit without losing the image quality of DVD. In addition, it can reproduce the matrix 6.1 of DTS 96/24 decoder signal.

### DOLBY DIGITAL EX

Adds a rear center channel for more spacious sound compared to regular 5.1 channel Dolby Digital.

### DTS (Digital Theater Systems)

DTS play backs 5.1 channel sound with less compression than Dolby Digital for richer sound.

### DTS-ES

DTS-ES is the surround format implementing 6.1 channels while preserving compatibility to existing DTS Digital Sound formats.

### DTS NEO:6

Reproduces digital PCM or analog stereo over 6.1 channels using a high precision DTS digital matrix.



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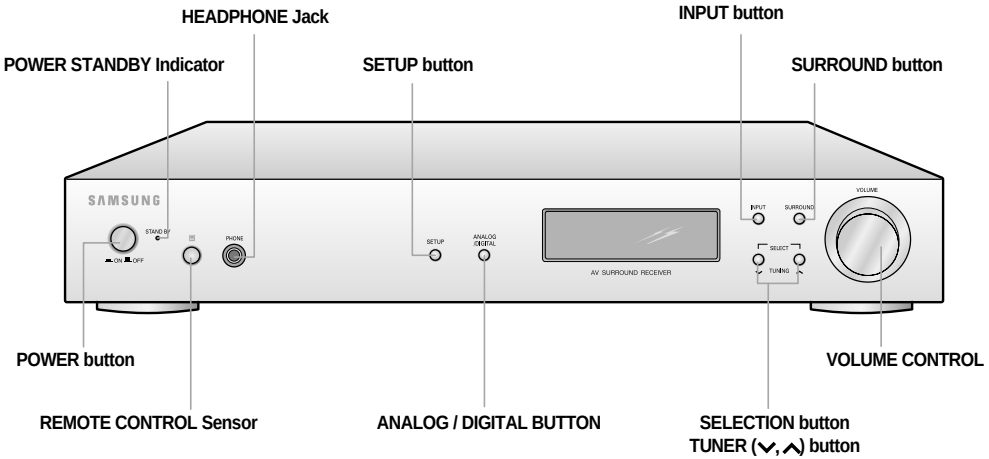
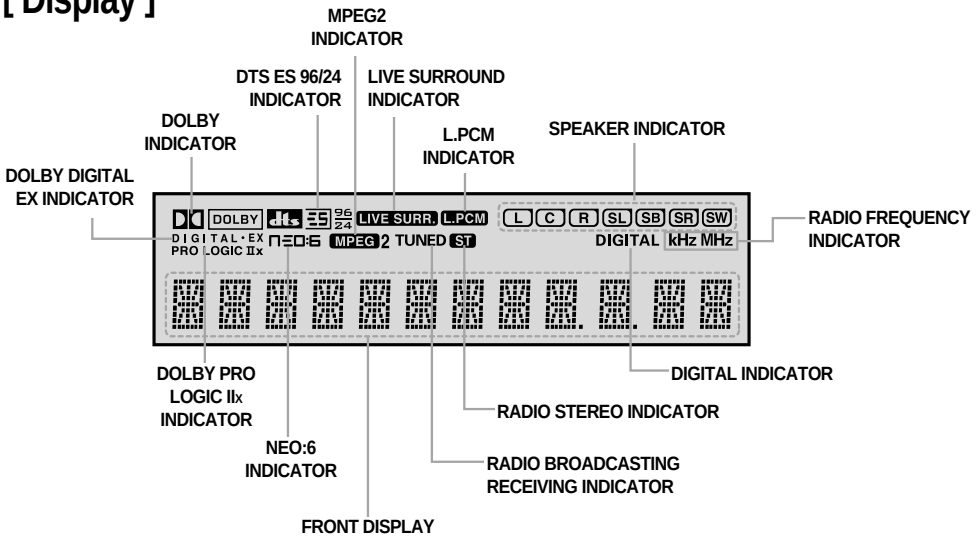
# Description



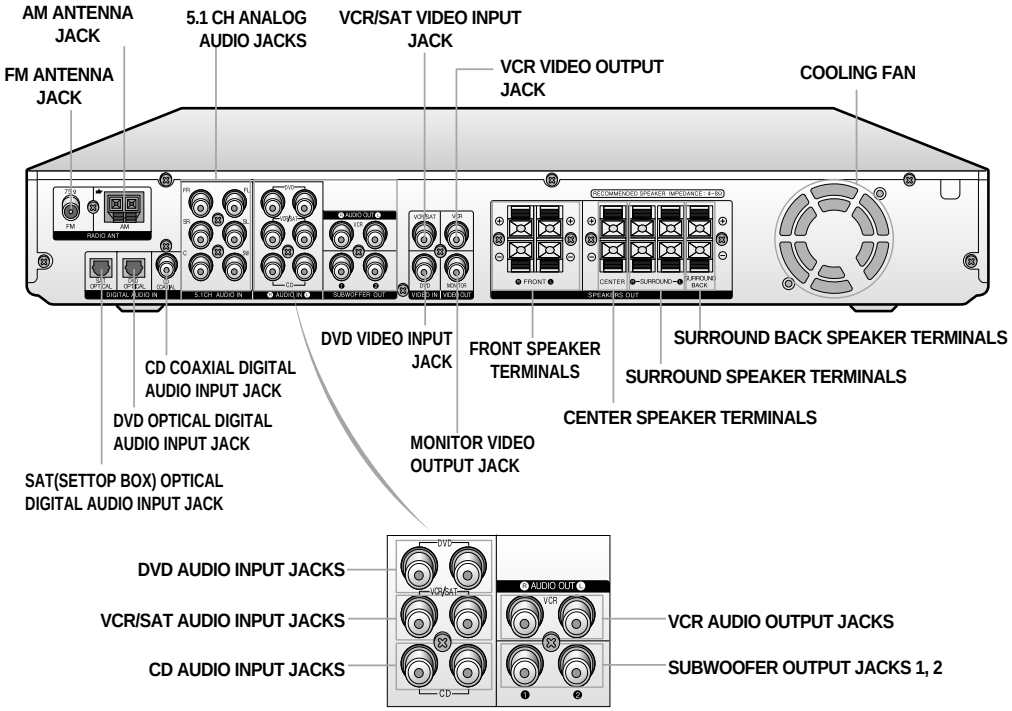
## [ Front Panel ]



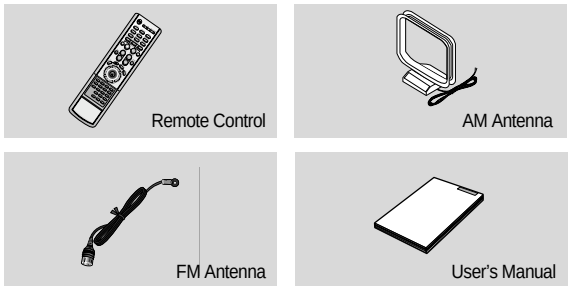

## [ Display ]




## [ Rear Panel ]

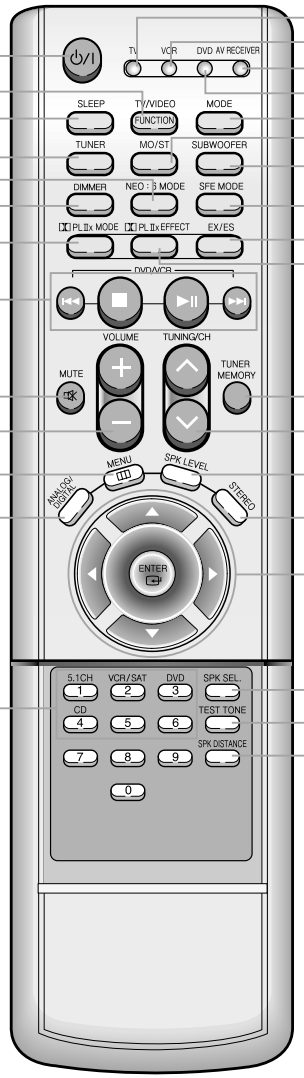

AM ANTENNA JACK
5.1 CH ANALOG AUDIO JACKS
VCR/SAT VIDEO INPUT JACK
FM ANTENNA JACK
VCR VIDEO OUTPUT JACK
COOLING FAN
DVD VIDEO INPUT JACK
FRONT SPEAKER TERMINALS
SURROUND BACK SPEAKER TERMINALS
CD COAXIAL DIGITAL AUDIO INPUT JACK
SURROUND SPEAKER TERMINALS
CENTER SPEAKER TERMINALS
DVD OPTICAL DIGITAL AUDIO INPUT JACK
MONITOR VIDEO OUTPUT JACK
SAT(SETTOP BOX) OPTICAL DIGITAL AUDIO INPUT JACK
DVD AUDIO INPUT JACKS
VCR/SAT AUDIO INPUT JACKS
CD AUDIO INPUT JACKS
VCR AUDIO OUTPUT JACKS
SUBWOOFER OUTPUT JACKS 1, 2

## ▶▶ Accessories ◀◀



# Description

## [ Remote Control ]



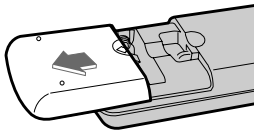

- POWER button
- TV VIDEO, FUNCTION button
- SLEEP button
- TUNER button
- NEO : 6 button
- DIMMER button
- PLIIx MODE button
- EXTERNAL DEVICE PLAYBACK button
- MUTE button
- VOLUME CONTROL button
- MENU button
- ANALOG/DIGITAL button
- Direct Function Select button
- TV Indicator
- VCR Indicator
- AV RECEIVER Indicator
- DVD Indicator
- MODE button
- MO/ST button
- SUBWOOFER button
- SFE MODE button
- EX/ES button
- PLIIx EFFECT button
- TUNER MEMORY button
- TUNING/CHANNEL button
- SPEAKER LEVEL button
- STEREO button
- MOVE/SELECT button
- SPEAKER SETUP button
- TEST TONE button
- SPEAKER DISTANCE button



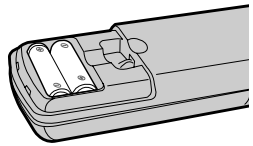


## Insert Remote Batteries

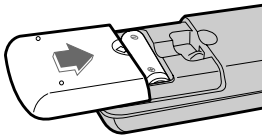
**1** Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.



**2** Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).



**3** Replace the battery cover.



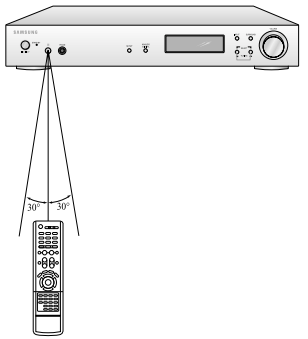
**Note**

**Follow these precautions to avoid leaking or cracking batteries:**

- Place batteries in the remote control so they match the polarity:(+) to (+)and (–)to (–).
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

## Range of Operation of the Remote Control

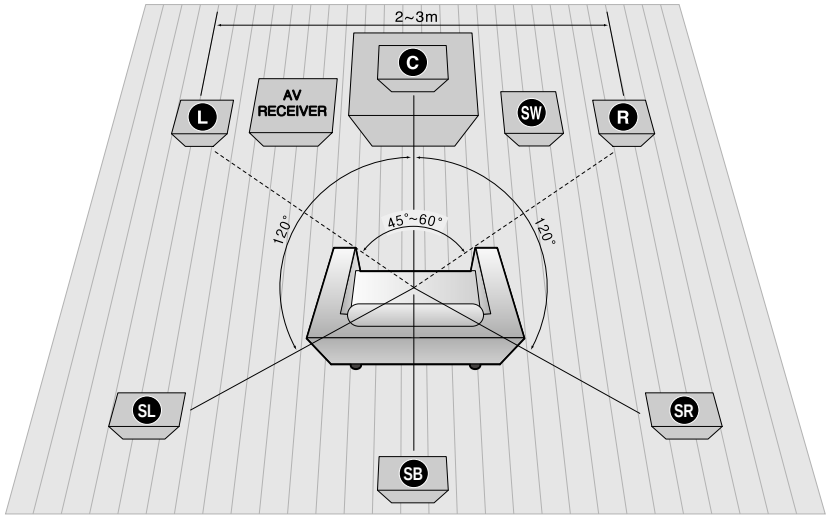
The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.




To open the remote control cover, push the top of the cover, then slide downward.

# Connecting the Speakers

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.




## Position of AV Receiver

- Place AV Receiver on a dedicated stand or rack.

## Front Speakers L R

- Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
- Place the speakers so that their tweeters will be at the same height as your ear.
- Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

## Center Speaker C

- It is best to install it at the same height as the front speakers.
- You can also install it directly over or under the TV.

## Subwoofer SW

- The position of the subwoofer is not so critical. Place it anywhere you like.

## Surround Speakers SL SR

- Place these speakers behind your listening position.
- If there isn't enough room, place these speakers so they face each other.
- Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.

❋ Unlike the front and center speakers, the surround speakers are used to handle mainly sound effects and sound will not come from them all the time.

## Surround Center Speaker SB

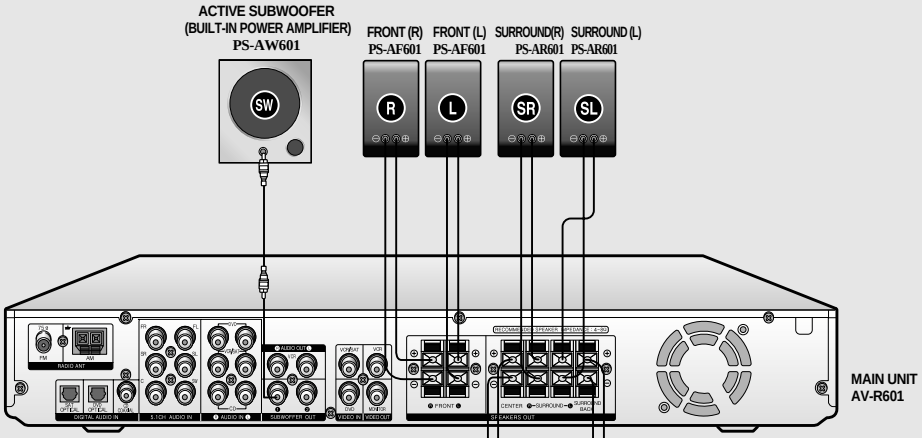
- Place it so it faces forward towards the back of the listener.
- Place the surround center speaker about 70 cm to 1 m (2.3~3.3feet) above rear speakers, facing slightly downwards.

**Note**

- When you place the speaker on the wall, make sure to fasten it tightly so that it may not fall off.





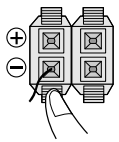



**SYSTEM MODEL NAME : HT-AS601**

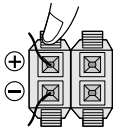
| | |
|---|---|
| MAIN UNIT | AV-R601 |
| FRONT SPEAKER | PS-AF601 |
| CENTER SPEAKER | PS-AC601 |
| SURROUND SPEAKER | PS-AR601 |
| SURROUND BACK SPEAKER | PS-AB601 |
| ACTIVE SUBWOOFER | PS-AW601 |

## ▶ Connecting Speaker Wire

**1** Press the tab of the speaker connector.



**2** Insert the black wire into the black(-) terminal and the gray wire into the gray(+) terminal.



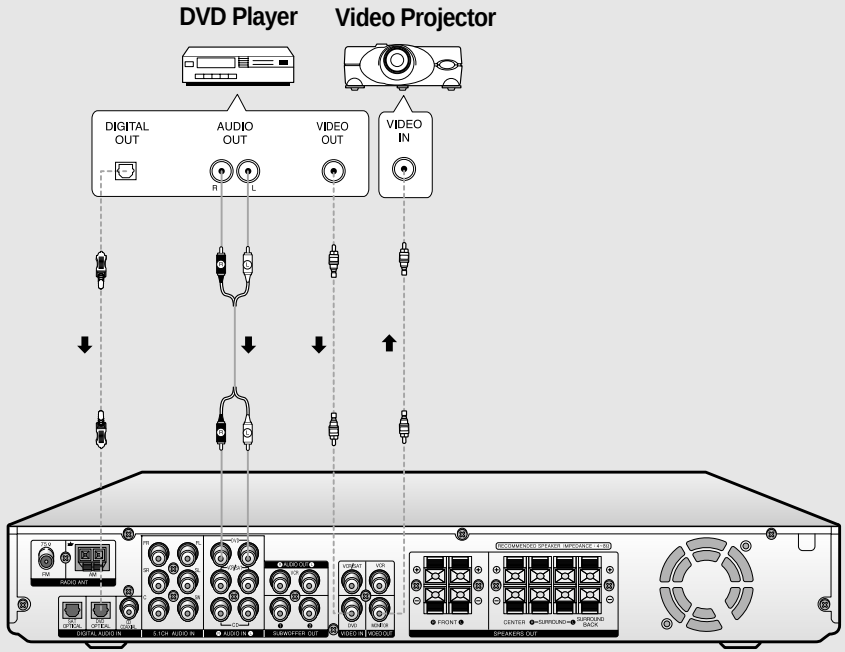
**Note**

- Never touch speaker terminals while the power is on. Doing so could result in electric shock.
- Make sure the polarities (+ and -) are correct.

# Connecting External Components

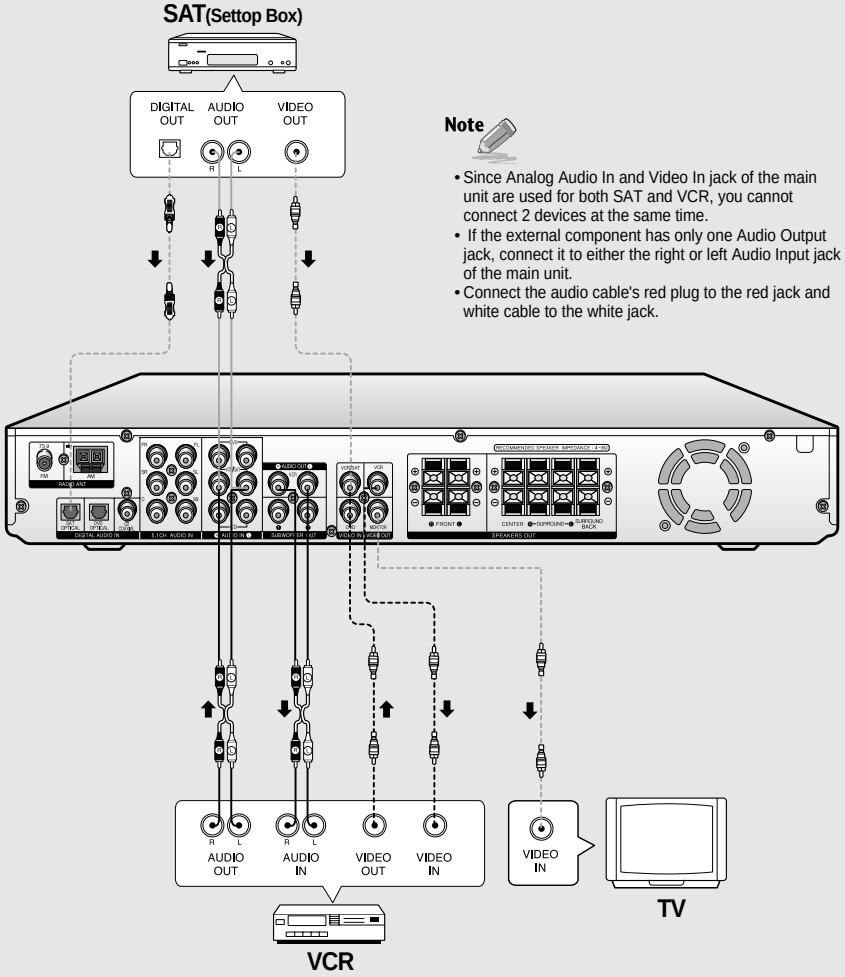
## Connecting Video Component

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.




**Note**

• Disconnect the power plug from the outlet if you do not use this unit for long period of time.



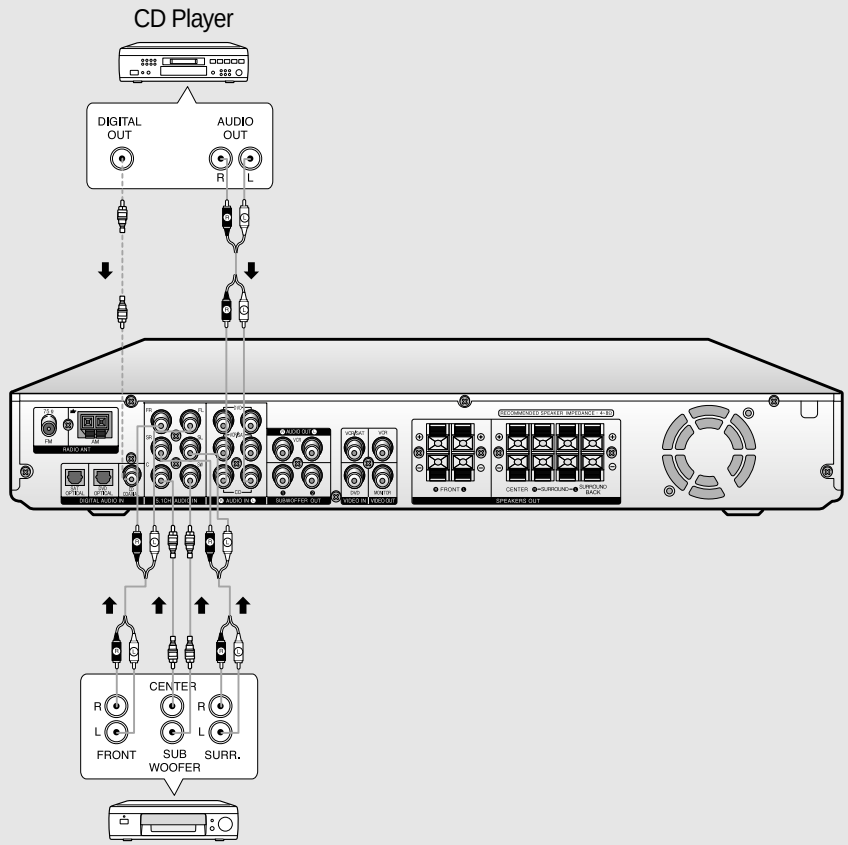

**Note**

- Since Analog Audio In and Video In jack of the main unit are used for both SAT and VCR, you cannot connect 2 devices at the same time.
- If the external component has only one Audio Output jack, connect it to either the right or left Audio Input jack of the main unit.
- Connect the audio cable's red plug to the red jack and white cable to the white jack.

# Connecting External Component

## Connecting Audio Component/ 5.1 Channel

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

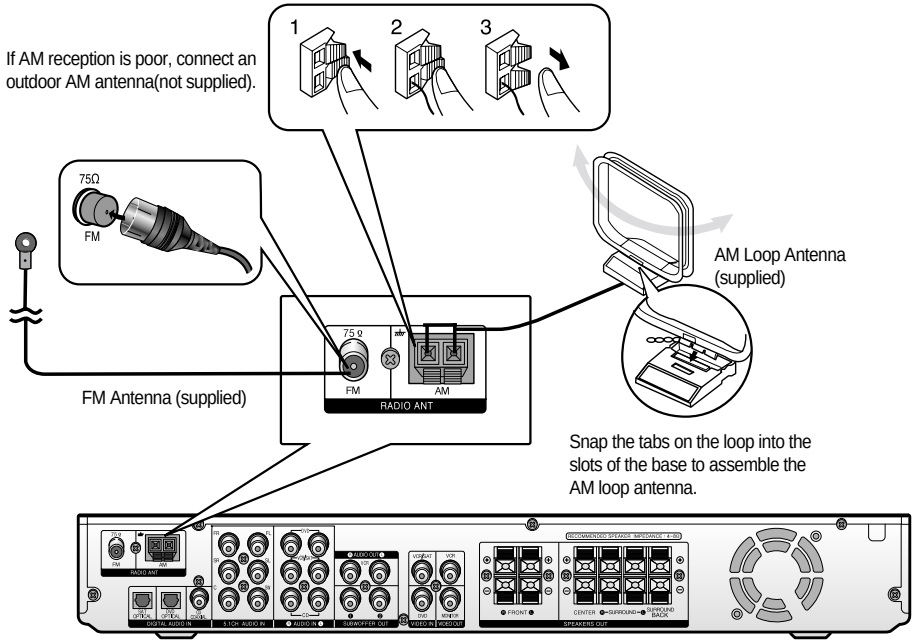





# Connecting the FM and AM Antennas








## FM antenna connection

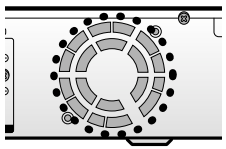
1. Connect the FM antenna supplied to the FM 75ΩCOAXIAL terminal as a temporary measure.
2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

## AM antenna connection

1. Connect the AM loop antenna supplied to the AM and terminals.
2. If reception is poor, connect an outdoor single vinyl-covered wire to the AM terminal. (Keep the AM loop antenna connected).

**COOLING FAN**

The cooling fan dissipates the heat generated inside the unit so that the unit can be operated normally. The cooling fan is activated automatically to supply cool air to the unit.



Please observe the following cautions for your safety.

- Make sure the unit is well-ventilated. If the unit has poor ventilation, the temperature inside the unit could rise and may damage it.
- Do not obstruct the cooling fan or ventilation holes. (If the cooling fan or ventilation holes are covered with a newspaper or cloth, heat may build up inside the unit and fire may result.)

# Before Using the AV Receiver

## Turning On/Off

### MAIN UNIT

**1** Connect the power plug to the outlet.

**2** Press the **POWER (** ON OFF **)** button of the main unit.

• This unit will be turned on or off.

### REMOTE CONTROL

Press the **POWER (** ⏻/I **)** button of the remote control while main unit is turned on.

• This unit will be turned on or set to Standby mode.

**Note**

• This unit will not turned on or off even if you press the **POWER (** ⏻/I **)** button on the remote control while the main unit is turned off.

• When you turn off the power by pressing the **POWER (** ⏻/I **)** button on the remote control, the unit will be in standby mode.To completely turn off the power, press the **POWER (** ON OFF **)** button of the main unit. Standby indicator will be turned off.

## Functions of Dedicated Remote Control

You can operate TV, VCR, DVD, AV Receiver with one remote control.
See pages 45-48 for more details.

### REMOTE CONTROL

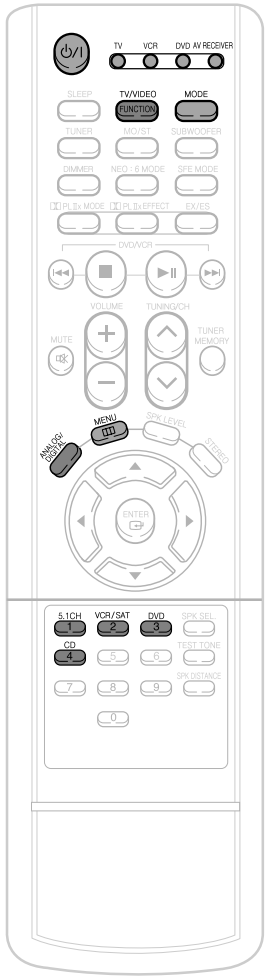
Press **MODE** button.

• Each time you press this button, it will select and blink TV indicator → VCR indicator → DVD indicator → AV Receiver indicator in turn.



# Selecting External Component Input






## To Select the Function

### REMOTE CONTROL

**Method 1**

Press the **FUNCTION** button.

• Each time you press the this button, **5.1CH MULTI CH → CD → DVD → VCR/SAT → FM → AM** will be selected in turn.

**Method 2** Press **DIRECT FUNCTION** Select button.

• You can directly select 5.1CH, VCR/SAT, DVD, CD.

### MAIN UNIT

Press **INPUT** button.

• Each time you press the this button, **5.1CH MULTI CH → CD → DVD → VCR/SAT → FM → AM** will be selected in turn.

OPERATION

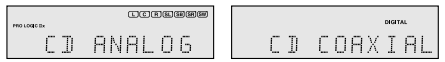
## To Select Analog/Digital Input

You can listen to sound in Analog 2 Channels or Dolby Digital 5.1 Channel using this unit.

Press the **ANALOG/DIGITAL** button.

• For DVD, VCR/SAT Function
**ANALOG** and **OPTICAL** (DVD OPTICAL, V/S OPTICAL) will be selected repetitively.

• For CD Function
**ANALOG** and **COAXIAL** will be selected repetitively.




**Note**

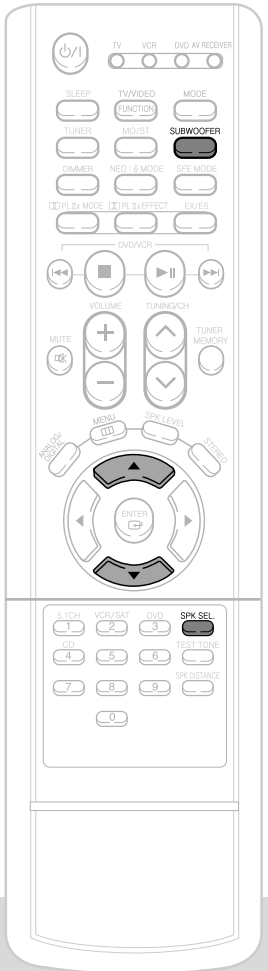
• You can enjoy Dolby Digital only if you connect the Audio Output jack of an external audio component to the optical/coaxial digital Audio Input jack on the main unit.

• You can operate this function only with the remote control.

• This function will be selected in analog only for VCR function, and will not work for 5.1CH MULTI CH function.

# Setting the Speaker Mode

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.Signal outputs and frequency response from the speaker will automatically be adjusted according to your speaker configuration and whether certain speakers are used or not.

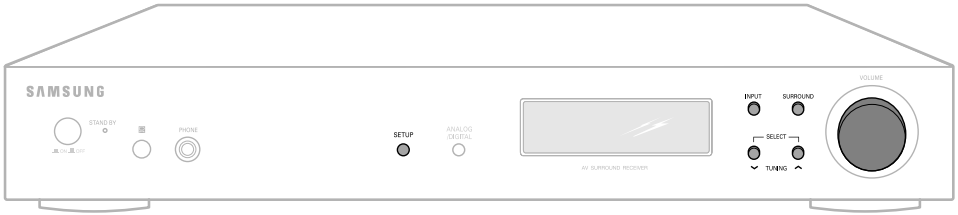


## REMOTE CONTROL

**1** Press **SPK SEL.** button to select the speaker you want.
- Each time you press this button, F.SPK → C.SPK → S.SPK → SB SPK → SW SPK → CROVR → SPK MODE OFF will be selected in turn.

**2** Press ▲▼ button to set the speaker mode.

### *To Exit Setup Mode*
- Wait for about 5 seconds or press the **SPK SEL.** button of the remote control to select SPK MODE OFF.




## MAIN UNIT

**1** Press **SETUP** button.
- "SETUP MODE" appears on the display and enters into Setup Mode.

**2** Press **INPUT** button one time.
"SPEAKER SETUP" appears in the display.

**3** Press **SURROUND** button to select the speaker you want.
- Each time you press this button, F.SPK → C.SPK → S.SPK → SB SPK → SW SPK → CROVR will be selected in turn.

**4** Press **SELECT** ( ❯,❮ ) button to set the speaker mode.

### *To Exit Setup Mode*
- Wait for about 5 seconds or turn the **VOLUME CONTROL** of the main unit. "SETUP MODE OFF" appears on the display and exits Setup Mode.

### *To turn the SUBWOOFER On or Off.*
Press **SUBWOOFER** button.
- Each time you press this button, SW SPK : YES, SW SPK : NO will be selected in turn.
- If you play in 2 Channel Stereo, select 'YES' to use Subwoofer and 'NO' not to use.

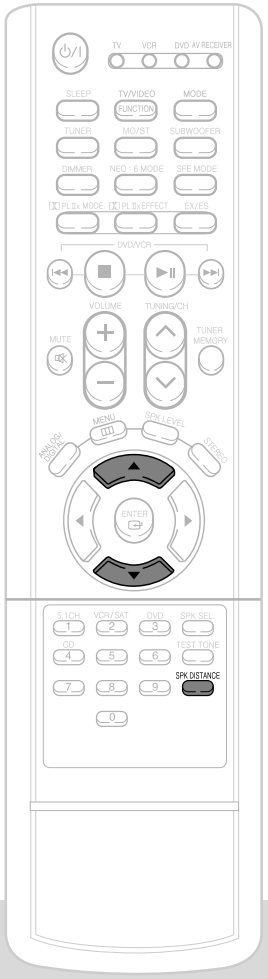
**Note**
- If F.SPK is set to 'SMALL', SW SPK is fixed to 'YES'.
- If S.SPK is set to 'NONE', SB SPK is fixed to 'NONE'.
- You cannot use Speaker Setup Mode in 5.1CH MULTI CH function.

### Setting the Speaker

- **F.SPK (Front)** : LARGE, SMALL
- **C.SPK (Center)** : LARGE, SMALL, NONE
- **S.SPK (Surround)** : LARGE, SMALL, NONE
- **SB SPK (Surround Center)** : LARGE, SMALL, NONE
- **SW SPK (Subwoofer)** : YES, NO
- **CROVR (Crossover Frequency)**: 60, 80, 100, 120, 150, 180, 200Hz
  **CROVR(Crossover Frequency) for this unit is 150Hz.**

- **LARGE** : Select when you use large speaker. You can listen to full range sound.
- **SMALL** : Select this when you use small speaker. Bass below 100Hz will not be output.
- **NONE** : Select this when you use no speaker.
- **YES** : Select this when you use Subwoofer Speaker if you play back in 2 Channel Stereo.
- **NO** : Select when you do not use Subwoofer Speaker if you play back in 2 Channel Stereo.
- **CROVR**: Select the crossover frequency depending on the size of speaker connected when you use subwoofer. Select 60Hz if cone paper speaker is 5.6inch, select 80Hz for 4.8inch, 100Hz for 4inch, 120Hz for 3.2inch, 150Hz for 2.4inch, 180Hz and 200Hz for 1.6inch.

# Setting the Speaker Listening Distance



## REMOTE CONTROL

**1** Press the **SPEAKER DISTANCE** button to select the speaker you want.

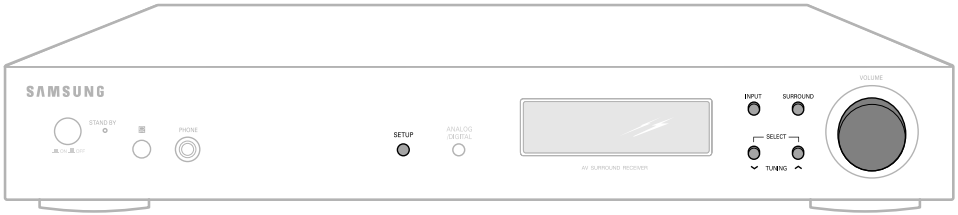
- Each time you press this button, F.L → CEN → F.R → S.R → S.B → S.L → S.W → DISTANCE OFF will be selected in turn.

**2** Press ▲▼ button to set the speaker distance.

- For F.L, CEN, F.R, S.W Speaker, you can set the distance from the speaker to listening position between 0.0~5feet in intervals of 1feet.
- For S. R, S.B, S.L Speaker, you can set the distance from the speaker to listening position between 0.0~15feet in intervals of 1feet.

### *To Exit Setup Mode*

- Wait for about 5 seconds or press the **SPEAKER DISTANCE** button of remote control to select DISTANCE OFF.




## MAIN UNIT

**1** Press **SETUP** button.

- "SETUP MODE" appears on the display and enters into Setup Mode.

**2** Press **INPUT** button 2 times.

- "DISTANCE SETUP" appears on the display.

**3** Press **SURROUND** button to select the speaker you want.

- Each time you press this button, F.L → CEN → F.R → S.R → S.B → S.L → S.W will be selected in turn.

**4** Press **SELECT**( ⌄,⌃) button to set the speaker distance.

- For F.L, CEN, F.R, S.W Speaker, you can set the distance from the speaker to listening position between 0.0~5feet in intervals of 1feet.
- For S.R, S.B, S.L Speaker, you can set the distance from the speaker to listening position between 0.0~15feet in intervals of 1feet.

### *To Exit Setup Mode*

- Wait for about 5 seconds or turn the **VOLUME CONTROL** of the main unit. "SETUP MODE OFF" appears on the display and exit Setup Mode.



**Note**

- If the listening position is beyond the range of speaker distance setup when you place the speaker, set the speaker distance to the maximum.

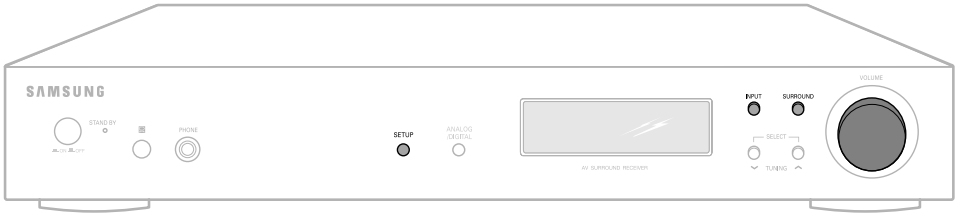
**Setting Speaker Distance**

Set the distance from the speaker to listening position in intervals of 0.3m.

- **F.L (Front-Left)** : 0.0m ~ 1.5m
- **CEN (Center)** : 0.0m ~ 1.5m
- **F.R (Front-Right)** : 0.0m ~ 1.5m
- **S.R (Surround-Right)** : 0.0m ~ 4.5m
- **S.B (Surround Center)**: 0.0m ~ 4.5m
- **S.L (Surround-Left)**: 0.0m ~ 4.5m
- **SW (Subwoofer)**: 0.0m ~ 1.5m

# Setting DRC (Dynamic Range Compression)

You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.



## MAIN UNIT

**1** Press **SETUP** button.
- "SETUP MODE" appears on the display and enters into Setup Mode.

**2** Press **INPUT** button 3 times.
- "DRC SETUP" appears on the display.

**3** Press **SURROUND** button to set DRC.
- Each time you press this button, DRC : STD → DRC : MAX → DRC : MIN will be selected in turn.

### *To Exit Setup Mode*

- Wait for about 5 seconds or turn the **VOLUME CONTROL** of the main unit. "SETUP MODE OFF" appears on the display and exits Setup Mode.

**Setting DRC**

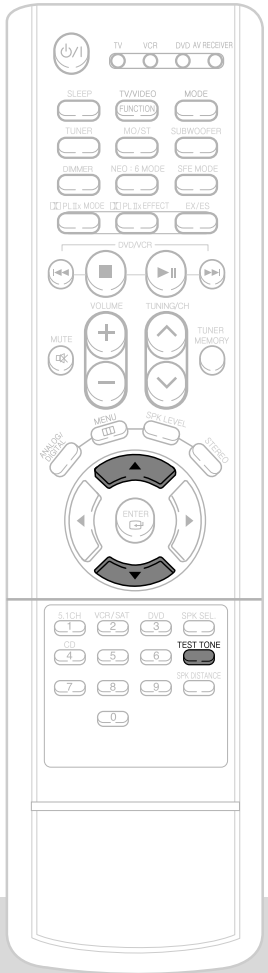
- **STD** : Sets DRC effect to standard.
- **MAX** : Sets DRC effect to maximum.
- **MIN** : Sets DRC effect to minimum.

**Note**
- You can only set this function via the main unit.



# Test Tone

Use test tone to check the speaker connection status or level.




## To Automatically Output Test Tone

## REMOTE CONTROL

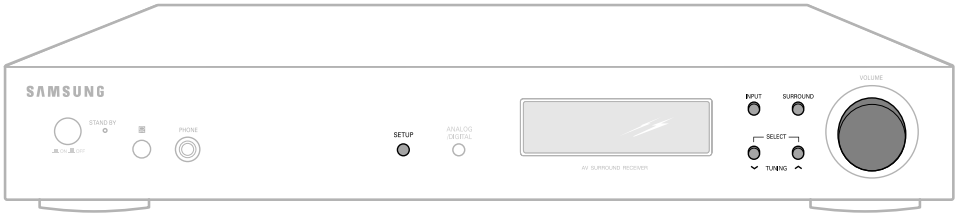
**1** Press **TEST TONE** button.
- Test signal will be automatically output as follows; F.L → CEN → F.R → S.R → S.B → S.L → S.W.
- During test tone output, press ▲▼ button to adjust the speaker output level from -10 to +10 dB by 1 step.

### *To Stop Test Tone*

- Press **TEST TONE** button again.

# Test Tone

Use test tone to check speaker connection status or level.




## To Automatically Output Test Tone

### MAIN UNIT

**1** Press **SETUP** button.
- "SETUP MODE" appears on the display and enters into Setup Mode.

**2** Press **INPUT** button 4 times.
- "TEST-T AUTO" appears in the display.

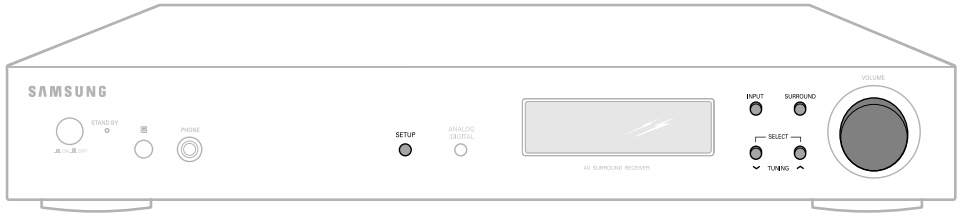
**3** Press **SURROUND** button.
- Test signal will be automatically output as follows; F.L → CEN → F.R → S.R → S.B → S.L → S.W .
- During test signal output, press **SELECT** ( ∨, ∧ ) button to adjust the speaker output level from -10 to +10 dB by 1 step.

### *To Stop Test Tone*

Method 1) Press **INPUT** button 2 times.
- "TEST-T OFF" appears on the display and test tone stops.

Method 2) Turn **VOLUME CONTROL.**
- "SETUP MODE OFF" appears on the display and test tone stops.






## To Manually Output Test Tone

### MAIN UNIT

**1** Press **SETUP** button.
- "SETUP MODE" appears on the display and enters into Setup Mode.

**2** Press **INPUT** button 5 times.
- "TEST-T MANU" appears in the display.

**3** Press **SURROUND** button.
- Each time you press this button, F.L → CEN → F.R → S.R → S.B → S.L → S.W will be selected in turn.

**4** Press **SELECT**( ∨, ∧ )button to set the test tone as you want.
- You can adjust the speaker output level from -10 to +10dB by 1 step.

### *To Stop Test Tone*

Method 1) Press **INPUT** button 1 time.
- "TEST-T OFF" appears on the display and test signal stops.

Method 2) Turn **VOLUME CONTROL.**
- "SETUP MODE OFF" appears on the display and test tone stops.

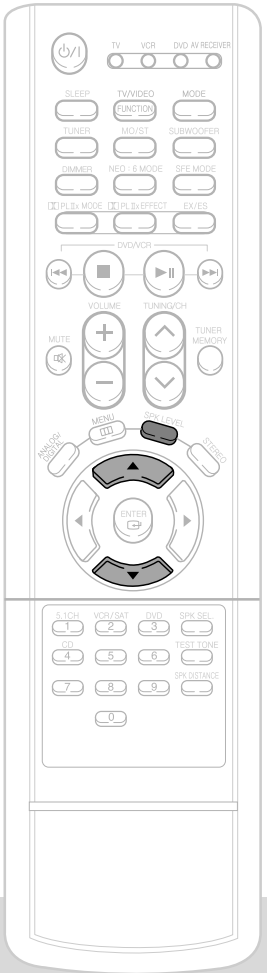


**Test Tone Output**

- **F.L (Front-Left)** : -10 ~ +10dB
- **CEN (Center)** : -10 ~ +10dB
- **F.R (Front-Right)** : -10 ~ +10dB
- **S.R (Surround-Right)** : -10 ~ +10dB
- **S.B (Surround Center)**: -10 ~ +10dB
- **S.L (Surround-Left)**: -10 ~ +10dB
- **S.W (Subwoofer)**: -10 ~ +10dB

# Setting Speaker Level

You can set the balance and level of speakers



## Remote Control

**1** Press **SPK LEVEL** button to select the speaker you want.

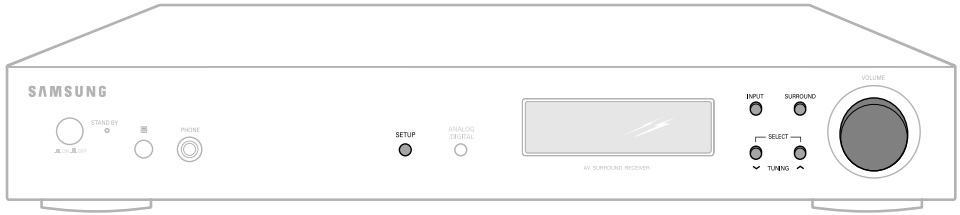
- Each time you press this button, F.L → CEN → F.R → S.R → S.B → S.L → S.W → SPK LEVEL OFF will be selected in turn.

**2** Press ▲▼ button to set the speaker level you want.

- You can adjust it from -10 to +10dB by 1 step.
- The sound gets quieter at -10dB and louder at +10dB.
- Default setting value is 00dB.

### *To Exit Setup Mode*

- Wait for about 5 seconds or press **SPK LEVEL** button on the remote control to select SPKLEVEL OFF.




## MAIN UNIT

**1** Press **SETUP** button.

- "SETUP MODE" appears on the display and enters into Setup Mode.

**2** Press **INPUT** button 7 times.

- "LEVEL SETUP" appears on the display.

**3** Press **SURROUND** button.

- Each time you press this button, F.L → CEN → F.R → S.R → S.B → S.L → S.W will be selected in turn.

**4** Press **SELECT**( ⌄,⌃) button to set to the speaker level you want.

- You can adjust it from -10 to +10dB by 1 step.
- The sound gets smaller at -10dB and louder at +10dB.
- Default setting value is 00dB

### *To Exit Setup Mode*

- Wait for about 5 seconds or turn **VOLUME CONTROL** of the main unit. "SETUP MODE OFF" appears on the display and exits Setup Menu.

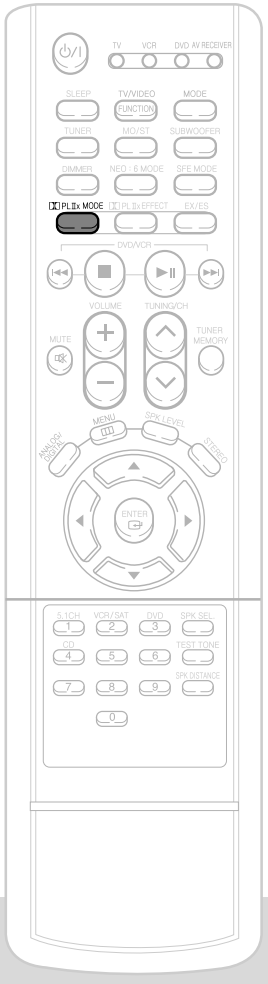


**Setting Speaker Level**

- **F.L (Front-Left)** : -10 ~ +10dB
- **CEN (Center)** : -10 ~ +10dB
- **F.R (Front-Right)** : -10 ~ +10dB
- **S.R (Surround-Right)** : -10 ~ +10dB
- **S.B (Surround Center)**: -10 ~ +10dB
- **S.L (Surround-Left)**: -10 ~ +10dB
- **S.W (Subwoofer)**: -10 ~ +10dB

# Dolby Pro Logic IIx Mode

This mode provides 5.1 channel sound from 2 channel sources



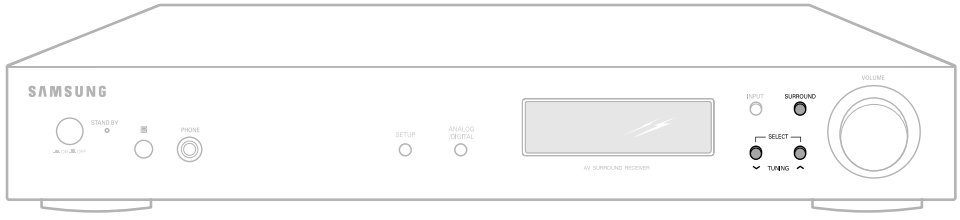
## REMOTE CONTROL

**1** Press DD PLIIx **MODE** button.

- Each time you press this button, MUSIC → CINEMA → MATRIX → GAME → PROLOGIC will be selected in turn.

### *To Exit Setup Mode*

- Wait for about 5 seconds.




## MAIN UNIT

**1** Press **SURROUND** button briefly to select "DPL IIx" Mode.

- Each time you press this button, DPL II x → NEO:6 → SFE → STEREO will be selected in turn.

**2** Press **SELECT(∨,∧)** button.

- Each time you press **SELECT (∧)** button, MUSIC → CINEMA → MATRIX → GAME → PROLOGIC will be selected in turn.
- Each time you press **SELECT (∨)** button, PROLOGIC → GAME → MATRIX → CINEMA → MUSIC will be selected in turn.

### *To Exit Setup Mode*

- Wait for about 5 seconds.



### Dolby Pro Logic II x Mode

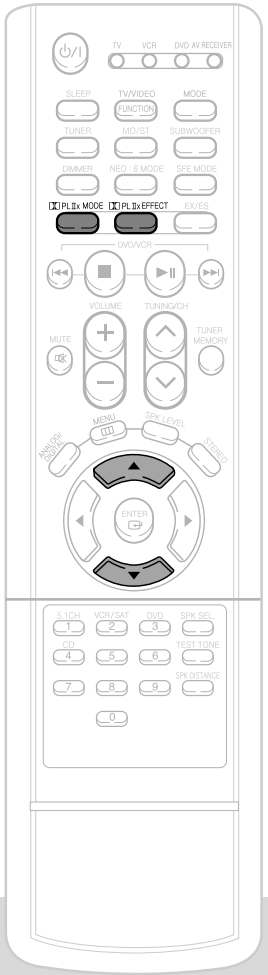
- **MUSIC** : Provides 5.1 Channel Surround sound to digital, analog or existing stereo sources such as CD, TAPE, FM, TV and Stereo VCR.
- **CINEMA** : Adds realism to the movie soundtrack.
- **MATRIX** : You will hear 5.1 Channel Surround sound.
- **GAME** : Enhances the excitement of the game's sound.
- **PROLOGIC** : You will experience a surround effect with just the front left and right speakers.

**Note**

- You cannot use Dolby Pro Logic II x Mode for multi channel signals such as Dolby Digital and DTS.
- Pro Logic works only for PCM audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.
- Sound will not be output from rear center speaker if PCM audio signal is mono.

# Dolby Pro Logic IIx Effect

This function works only in Dolby **PRO LOGIC IIX MUSIC** Mode.

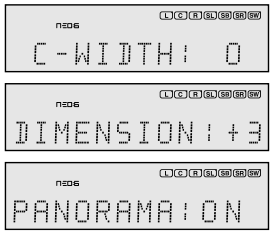


## REMOTE CONTROL

**1** Press PLIIx **MODE** button to select 'MUSIC' Mode.

**2** Press PLIIx **EFFECT** button.

- Each time you press this button, C-WIDTH → DIMENSION → PANORAMA → DPL IIx EFT OFF will be selected in turn.

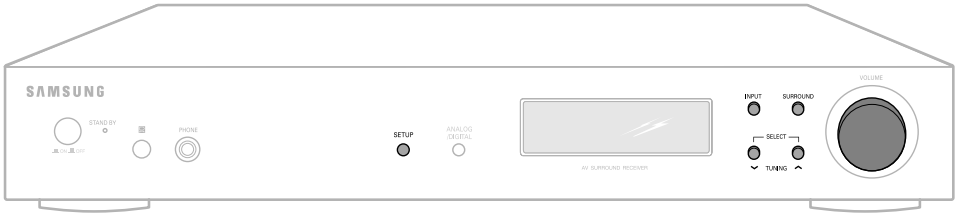



**3** Press ▲▼ button to select Dolby Pro Logic IIx effect you want.

- C-WIDTH: You can set from 0 to 7.
- DIMENSION: You can set from -7 to +7.
- PANORAMA: You can Set it ON or OFF.

### *To Exit Setup Mode*

- Wait for about 5 seconds or press PLIIx Effect button of remote control to select DLP IIx EFT OFF.




## MAIN UNIT

**1** Press **SETUP** button.

- "SETUP MODE" appears on the display and enters into Setup Mode.

**2** Press **INPUT** button 9 times.

- "DPL II x MODE"appears on the display.

**3** Press **SURROUND** button.

- Each time you press this button, **C-WIDTH → DIMENSION → PANORAMA** will be selected in turn.

**4** Press **SELECT**( ⌄, ⌃) button to select Dolby Pro Logic IIx effect you want.

### *To Exit Setup Mode*

- Wait for about 5 seconds or turn **VOLUME CONTROL** of the main unit. "SETUP MODE OFF" appears on the display and exits Setup Mode.

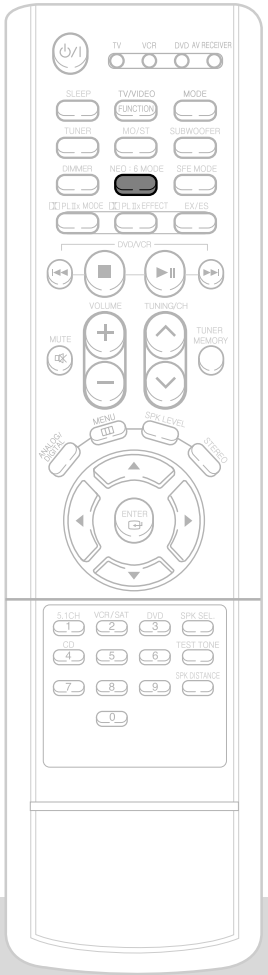


**Dolby Pro Logic IIx Effect**

- **C-WIDTH** : This sets the width of the center image. The higher the setting, the less sound comes from the center speaker.
- **DIMENSION** : Incrementally adjusts the sound field (DSP)from the front or rear.
- **PANORAMA** : This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.

# NEO:6 Mode

You can play back 2 channel sound over 6.1 channels of when enjoying music or a movie.



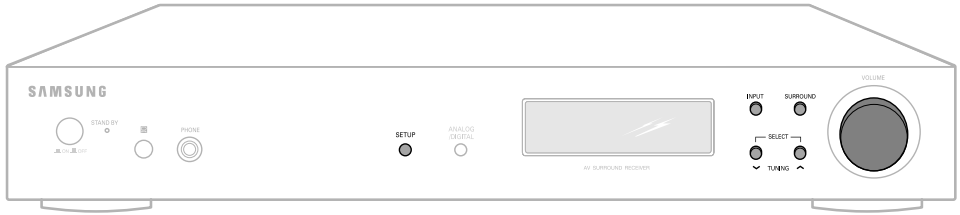
## REMOTE CONTROL

**1** Press **NEO:6 MODE** button.

- Each time you press this button, MUSIC → CINEMA will be selected in turn.

### *To Exit Setup Mode*

- Wait for about 5 seconds.




## MAIN UNIT

**1** Press **SURROUND** button briefly to select “NEO:6” Mode.

- Each time you press this button, DPL II x → NEO:6 → SFE → STEREO will be selected in turn.

**2** Press **SELECT**(∨,∧) button.

- Each time you press this button, MUSIC → CINEMA will be selected in turn.

## To Set Sound Image of Center Speaker

If TV (or screen) is installed high, you can feel the balance of sound and image by raising the sound image of Center Speaker.

**1** Press **SETUP** button.

- “SETUP MODE” appears on the display and enters into Setup Mode.

**2** Press **INPUT** button 10 times.

- “NEO:6 MODE” appears on the display.

**3** Press **SURROUND** button.

- “CEN-IMG” appears on the display.

**4** Press **SELECT**(∨,∧) button to set the sound image you want.

- You can set the sound image from 0 to 5.

### *To Exit Setup Mode*

- Wait for about 5 seconds or turn **VOLUME CONTROL** of the main unit. ‘SETUP MODE OFF’ appears on the display and exits Setup Mode.



**Note**

- NEO:6 Mode can be used with DTS and Dolby Digital multi channel signals.
- Pro Logic works only for PCM audio signals with sampling frequency of 32KHz, 44KHz or 48KHz.

**NEO : 6 Mode**

This mode decodes 2 channel signals to high precision digital matrix decoder.
DTS NEO:6 decoder discretes 2 channel sound to Discrete 6.1 channel sound.

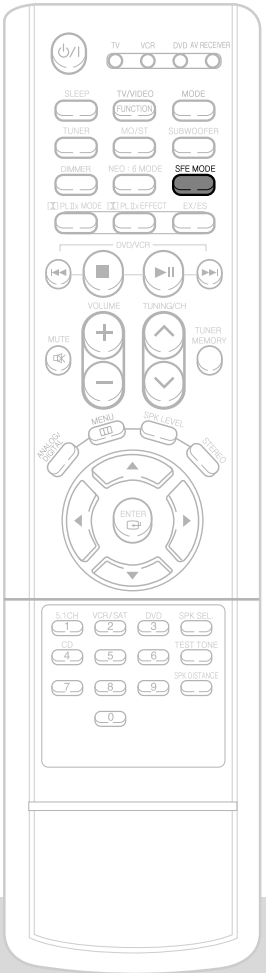
- MUSIC : NEO:6 MUSIC Mode is optimized for music playback
- CINEMA : NEO:6 CINEMA Mode is optimized for movie playback.

**Note**

- You can use this function to set the sound image of Center Speaker only via the main unit.

# SFE Mode

Refer to the unique sound existing at specific place and you can feel live sound as if you are listening at actual site.



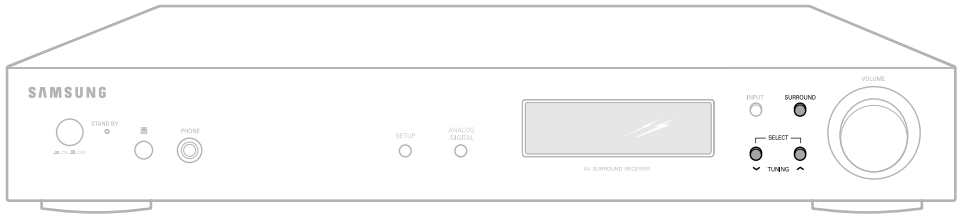
## REMOTE CONTROL

**1** Press **SFE MODE** button.

- Each time you press this button, **HALL → THEATER → ARENA → CLUB → DOME → STADIUM → CHURCH** will be selected in turn.

### *To Exit Setup Mode*

- Wait for about 5 seconds.




## MAIN UNIT

**1** Press **SURROUND** button briefly to select 'SFE' Mode.

- Each time you press this button, DPL II x → NEO:6 → SFE → STEREO will be selected in turn.

**2** Press **SELECT(∨,∧ )** button.

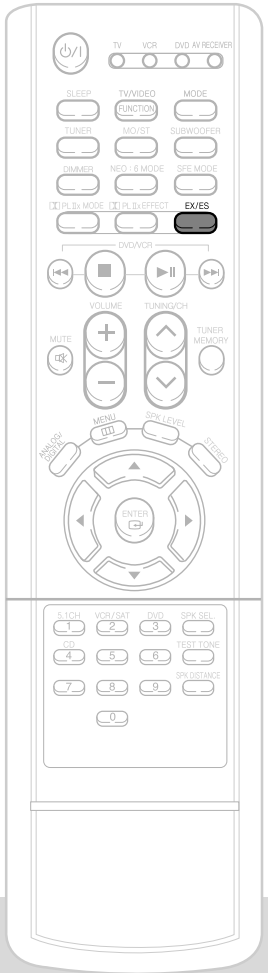
- Each time you press Select ( ∧) button, **HALL → THEATER → ARENA → CLUB → DOME → STADIUM → CHURCH** will be selected in turn
- Each time you press Select ( ∨) button, **CHURCH → STADIUM → DOME → CLUB → ARENA → THEATER → HALL** will be selected in turn.

### *To Exit Setup Mode*

- Wait for about 5 seconds.

# EX/ES Mode

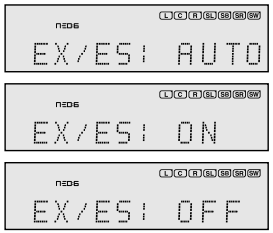
This mode enable you to listen to 6.1 channel surround from Dolby Digital-EX, DTS-ES sources. This function works when Dolby Digital 5.1 channel source is inputted, and does not work with LPCM and Dolby Digital 2 channel sources.



## REMOTE CONTROL

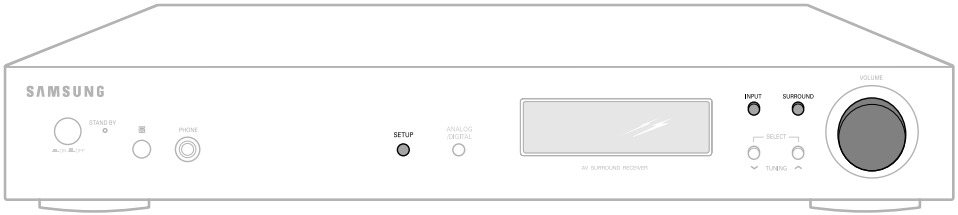
Press **EX/ES** button.

- Each time you press this button, EX/ES AUTO → EX/ES ON → EX/ES OFF will be selected in turn.




### *To Exit Setup Mode*

- Wait for about 5 seconds or press **EX/ES** button of the remote control to select EX/ES : OFF.




## MAIN UNIT

### Method 1

**1** Press and hold **SURROUND** button for about 5 seconds.

- "SETUP MODE" appears on the display and enters into Setup Mode.

**2** Press **SURROUND** button.

- Each time you press this button, EX/ES : AUTO → EX/ES : ON → EX/ES : OFF will be selected in turn.

### Method 1

**1** Press **SETUP** button.

- "SETUP MODE" appears on the display and enters into Setup Mode.

**2** Press **INPUT** button 11 times.

- "EX/ES SETUP" appears on the display.

**3** Press **SURROUND** button.

- Each time you press this button, EX/ES : AUTO → EX/ES : ON → EX/ES : OFF will be selected in turn.

### *To Exit Setup Mode*

- Wait for about 5 seconds or turn **VOLUME CONTROL** of the main unit. 'SETUP MODE OFF' appears on the display and exits Setup Mode.



### EX/ES Mode

- **AUTO** : 6.1 channel sound will be played back to 6.1 channel and 5.1 channel sound will be automatically converted to and output as 5.1 channel.
- **ON** : 5.1 channel sound will be converted to and output as 6.1 channel.
- **OFF** : 6.1 channel sound will be converted to and output as 5.1 channel.

### Dolby Digital - EX

Movie sound track encoded with Dolby Digital EX can play back the rear center channel added during program mixing. Rear center channel provides fine image, in-depth and realistic feeling.

**Note**

- You cannot use Dolby Digital-EX in the system without rear center speaker.
- You need to set it to EX/ES Mode when playing back disk encoded to Dolby Digital-EX in 6.1 channel.
- Some disks encoded with Dolby Digital-EX do not contain identification signal. In this case, set EX/ES to ON.

### DTS-ES (Discrete 6.1, Matrix 6.1)

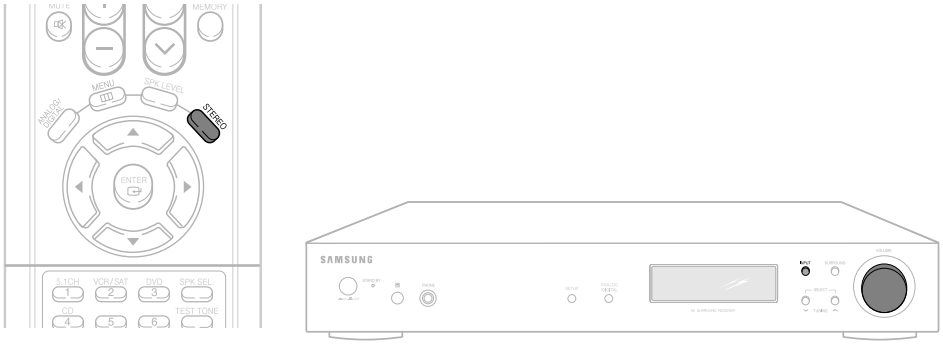
Rear center channel is added to DTS 5.1 channel, improving the sense of direction and space for sound. Since DTS-ES decoder is built-in in the main unit, you can play back the disk encoded with DTS-ES Discrete and DTS-ES Matrix. DTS-ES Discrete 6.1 can record the sound of all channels including rear center channel digitally and play back the recorded sound as they are.

**Note**

- You cannot use DTS-ES in the system without rear center speaker.

# Stereo Mode

You can select this mode when you listen to sound through the Front Left and Right speakers and subwoofer.




## REMOTE CONTROL

Press **STEREO** button.

- "STEREO" appears in the display and Stereo Mode is selected.

### *To Exit Setup Mode*

- Wait for about 5 seconds.

## MAIN UNIT

Press **SURROUND** button briefly to select 'STEREO'.

- Each time you press this button, DPL II x → NEO:6 → SFE → STEREO will be selected in turn.

### *To Exit Setup Mode*

- Wait for about 5 seconds.

**Note**

- When PCM and Analog Stereo signals are input, the left and right channels are played back in Stereo Mode.

## For Surround Mode and Input Signal

o = active, – = inactive

| Surround Mode | Input Signal | Decoding | Output Channel | | | | | Display Information | |
|---|---|---|---|---|---|---|---|---|---|
| | | | L/R | C | SL SR | SC | SubW | Display Signal Format | Channel Status |
| DOLBY (MUSIC, CINEMA, MATRIX, GAME, PROLOGIC) | Dolby D Surr. EX | Dolby Digital 5.1 | O | O | O | - | O | □□ DIGITAL | L, C, R, SL, SR, SC, SW |
| | Dolby D (5.1ch) | Dolby Digital 5.1 | O | O | O | - | O | □□ DIGITAL | L, C, R, SL, SR, SW |
| | Dolby D (2ch) | Pro Logic II x | O | O | O | O | O | □□ DIGITAL | L, R |
| | Dolby D (2ch Surr) | Pro Logic II x | O | O | O | O | O | □□ DIGITAL | L, R, SC |
| | L.PCM (Audio) | Pro Logic II x | O | O | O | O | O | L.PCM | L, R |
| | Analog | Pro Logic II x | O | O | O | O | O | ANALOG | - |
| NEO:6 (MUSIC, CINEMA) | DTS-ES | DTS 5.1 | O | O | O | O | O | dts, ES | L, C, R, SL, SR, SC, SW |
| | DTS 96/24 | DTS 96/24 | O | O | O | O | O | DTS 96/24 | L, C, R, SL, SR, SW |
| | DTS (5.1) | DTS 5.1 | O | O | O | - | O | dts | L, C, R, SL, SR, SW |
| | L.PCM (Audio) | Neo:6 | O | O | O | O | - | L.PCM | L, R |
| | Analog | Neo:6 | O | O | O | O | - | ANALOG | - |
| | Dolby D (2ch) | Neo:6 | O | O | O | O | - | □□ DIGITAL | L, R |
| | Dolby D (2ch Surr) | Neo:6 | O | O | O | O | - | □□ DIGITAL | L, R, SC |
| SFE | Dolby Surr. EX | SFE | - | - | - | - | - | □□ DIGITAL | L, C, R, SL, SR, SC, SW |
| | Dolby D (5.1ch) | SFE | - | - | - | - | - | □□ DIGITAL | L, C, R, SL, SR, SW |
| | Dolby D (2ch) | SFE | O | O | O | O | O | □□ DIGITAL | L, R |
| | Dolby D (2ch Surr) | SFE | O | O | O | O | O | □□ DIGITAL | L, R, SC |
| | DTS-ES | SFE | - | - | - | - | - | dts, ES | L, C, R, SL, SR, SC, SW |
| | DTS (5.1ch) | SFE | - | - | - | - | - | dts | L, C, R, SL, SR, SW |
| | L.PCM (Audio) | SFE | O | O | O | O | O | L.PCM | L, R |
| | Analog | SFE | O | O | O | O | O | ANALOG | - |
| EX/ES | Dolby D Surr. EX | Dolby Digital EX | O | O | O | O | O | □□ DIGITAL | L, C, R, SL, SR, SC, SW |
| | Dolby D (5.1ch) | Dolby Digital EX | O | O | O | O | O | □□ DIGITAL | L, C, R, SL, SR, SW |
| | DTS-ES | DTS-ES | O | O | O | O | O | dts, ES | L, C, R, SL, SR, SC, SW |
| | DTS (5.1ch) | DTS-ES | O | O | O | O | O | dts | L, C, R, SL, SR, SW |
| STEREO | Dolby Surr. EX | Stereo | O | - | - | - | O | □□ DIGITAL | L, C, R, SL, SR, SC, SW |
| | Dolby D (5.1ch) | Stereo | O | - | - | - | O | □□ DIGITAL | L, C, R, SL, SR, SW |
| | Dolby D (2ch) | Stereo | O | - | - | - | - | □□ DIGITAL | L, R, |
| | Dolby D (2ch Surr) | Stereo | O | - | - | - | - | □□ DIGITAL | L, R, SC |
| | DTS-ES | Stereo | O | - | - | - | O | dts, ES | L, C, R, SL, SR, SC, SW |
| | DTS 96/24 | Stereo | O | - | - | - | O | dts 96/24 | L, C, R, SL, SR, SW |
| | DTS (5.1ch) | Stereo | O | - | - | - | O | dts | L, C, R, SL, SR, SW |
| | L.PCM (Audio) | Stereo | O | - | - | - | - | L.PCM | L, R |
| | L.PCM 96KHz | Stereo | O | - | - | - | - | L.PCM | L, R |
| | Analog | Stereo | O | - | - | - | - | ANALOG | - |

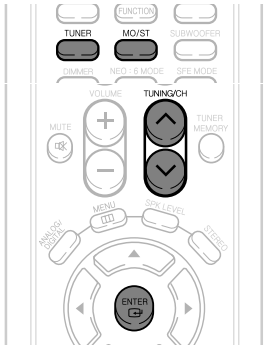
**L/R** : Front Speaker (Left/Right) **C** : Center Speaker **SL/SR** : Surround Speaker (Left/Right) **SC** : Surround Center Speaker **SW** : Subwoofer

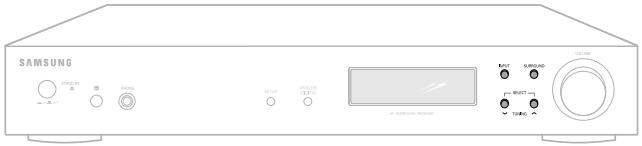
**Note**

- 2 channel Dolby Digital signal has Dolby Digital Pro Logic. Speaker Setup is set to LARGE, SMALL, or YES.
- If there is no surround signal in DVD disk, sound will not output from rear-left speaker, rear-right speaker, center speaker, and subwoofer.

# Listening to Radio

You can listen to the chosen band (FM, AM broadcast stations) by using either the automatic or manual tuning operation.




## REMOTE CONTROL

**1** Press **TUNER** button.

- Each time you press this button, FM → AM will be repetitively selected.

**2** Select frequency.

- Automatic Tuning 1 :
  1) Press **ENTER** button to select PRESET.
  2) Press **TUNING/CH( ⌄, ⌃ )** button to select the preset frequency.
- Automatic Tuning 2 :
  1) Press **ENTER** button to select MANUAL
  2) Press and hold **TUNING/CH( ⌄, ⌃)** button to automatically tune in frequency.
- Manual Tuning :
  1) Press **ENTER** button to select MANUAL.
  2) Press **TUNING/CH( ⌄, ⌃ )** button briefly to increase or decrease frequency by step by step.

## MAIN UNIT

**1** Press **INPUT** button to select FM or AM.

**2** Select the frequency.

- Automatic Tuning :
  Press and hold **TUNING/CH( ⌄, ⌃ )** button to automatically tune in frequency.
- Manual Tuning :
  Press **TUNING/CH( ⌄, ⌃ )** button briefly to increase or decrease frequency step by step.

### *To Listen to Mono/Stereo*

Press **MO/ST** button on the remote.

- Each time you press this button, STEREO, MONO will be selected in turn.
- If you select MONO in the area with weak reception, it will help to reduce noise.
- This function works only with the Remote Control.

### *How to select PRESET, MANUAL*

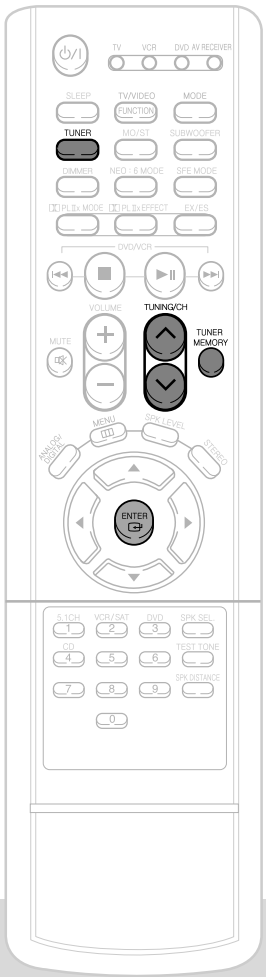
1. Press the **SETUP** button.
2. Press the **INPUT** button 8 times.
3. Press the **SURROUND** button and select Manual or Preset.
   - This function operates only with the main unit.



# Presetting Radio Stations



You can preset up to 30 FM and AM stations.

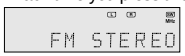



## REMOTE CONTROL

Ex) Presetting FM station 89.1

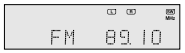
**1** Press **TUNER** button.

- Each time you press this button, FM → AM will be selected in turn.



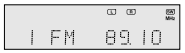

**2** Press Select button and then **TUNING/CH(⌄, ⌃)** button to select 89.1.

- Refer to step 2, page 39, to tune in automatically and manually.



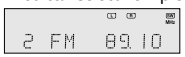

**3** Press **TUNER MEMORY** button.

- Tuner number will blink on the display.



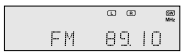

**4** Press **TUNING/CH(⌄, ⌃)** button to select preset 2.

- You can select from presets 1 to 30.




**5** Press **TUNER MEMORY** button.

- Tuner number will disappear and station 89.1 will be saved in preset 2.

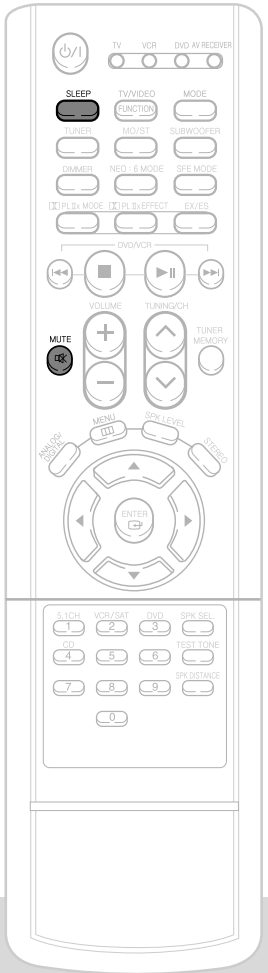



**6** To preset other stations, repeat steps 2 to 5.

### *To Listen to Preset Station*

- Press Select button of the remote control to select the PRESET and press **TUNING/CH ( ⌄, ⌃ )** button.

# Convenient Functions



## Sleep Timer Function

You can set the time that this unit will shut itself off.

### REMOTE CONTROL

Press the **SLEEP** button.

• SLEEP : OFF → 15 → 30 → 45 → 60 → 90 → 120MIN will be selected in turn.

*To Check Sleep Timer*

Press **SLEEP** button.

• The remaining time before this unit will shut itself off is shown on the display.
• Pressing the button again changes the sleep time from what you have set earlier.

*To Cancel Sleep Timer*

• Press **SLEEP** button until SLEEP : OFF appears on the display.

## Mute Function

This function is useful when answering a doorbell or telephone call.

### REMOTE CONTROL

Press the **MUTE** button.

• **MUTE** appears on the display.

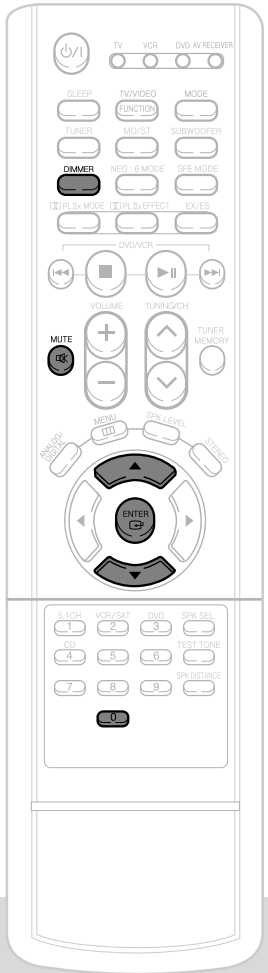
*To Output Sound Again*

Press **MUTE** button again.

• MUTE will disappear and sound will Output.

**Note**

• SLEEP, Mute and Adjust Display function can only be operated with the remote control.



## Reset Function

### REMOTE CONTROL

1. Press the **MUTE** button.
   • **MUTE** appears on the display.
2. Press "**0**" button five times and then press **ENTER** button.
3. Press ▲▼ buttons to select "YES".
   • The unit will turn automatically back on in 5 seconds.

**Caution!**

• Using the RESET function will erase all stored settings.
• Do not use this unless necessary.

## Adjust the Display

You can adjust the brightness of the display.

### REMOTE CONTROL

Press the **DIMMER** button.

• Each time you press this, the brightness of the display will be adjusted.

## Using Headphone

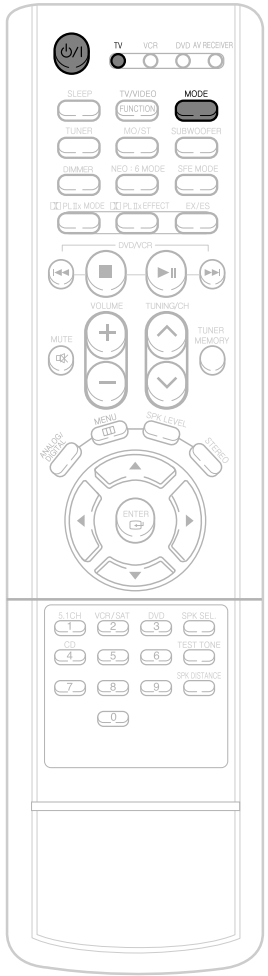
Use headphones (not supplied) for private listening pleasure.

Connect the headphone to the headphone jack and listen to music.

**Note**

• Do not turn the volume up too high when you use headphone.
• It may damage your hearing.

# Operating TV with Remote Control




**1** Press **MODE** button to make the TV indicator on the remote control flash.

**2** Press **POWER(⏻/I)** button to turn on the TV.

**3** Point the remote control toward the TV.

**4** While holding down **POWER(⏻/I)** button, enter the code corresponding to your brand of TV.

- If the code matches the TV's code, the TV will be turned off.
- If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.

**5** If TV is turned on or off when you press the power button of the remote control, the setting is completed.

- You can use the TV POWER, VOLUME, CHANNEL, and Numeric buttons (0~9).

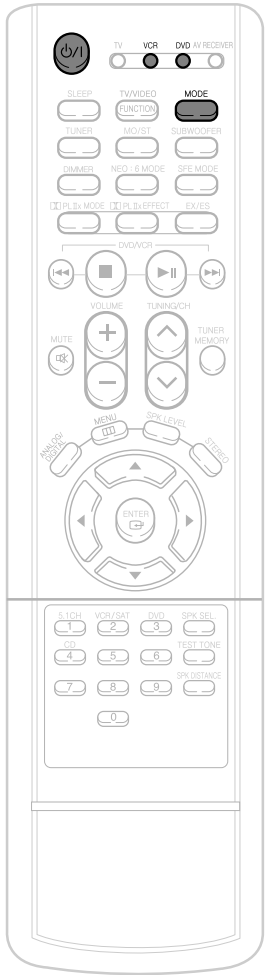
**Note**

- The remote control may not work on some brands of TVs. Also, some operation may not be possible depending on your brand of TV.
- The remote control will work with Samsung TVs by default.

## TV Brand Code List

| Brand | Code Number | Brand | Code Number | Brand | Code Number |
|---|---|---|---|---|---|
| ADMIRAL(M.WARDS) | 056, 057, 058 | LUXMAN | 018 | SYLVANIA | 018, 040, 048, 054, 059, 060, 062 |
| A MARK | 001, 015 | LXI(SEARS) | 019, 054, 056, 059, 060, 062, 063, 065, 071 | SYMPHONIC | 061, 095, 096 |
| ANAM | 001, 002, 003, 004,005, 006, 007, 008, 009, 010, 011, 012, 013, 014 | MAGNAVOX | 015, 017, 018, 048, 054, 059, 060, 062, 072, 089 | TATUNG | 006 |
| | | | | TECHWOOD | 018 |
| AOC | 001, 018, 040, 048 | MARANTZ | 040, 054 | TEKNIKA | 003, 015, 018, 025 |
| BELL & HOWELL(M.WARDS) | 057, 058, 081 | MATSUI | 054 | TMK | 018, 040 |
| BROCSONIC | 059, 060 | MGA | 018, 040 | TOSHIBA | 019, 057, 063, 071, 101 107, 109, 110, 111, 113 |
| CANDLE | 018 | MITSUBISHI/MGA | 018, 040, 054, 059, 060, 075, 101 | | |
| CETRONIC | 003 | | | VIDTECH | 018 |
| CITIZEN | 003, 018, 025 | MTC | 018 | VIDECH | 059, 060, 069 |
| CINEMA | 097 | NEC | 018, 019, 020, 040, 059, 060 | WARDS | 015, 017, 018, 040, 048, 054, 060, 064 |
| CLASSIC | 003 | | | | |
| CONCERTO | 018 | NIKEI | 003 | YAMAHA | 018 |
| CONTEC | 046 | ONKING | 003 | YORK | 040 |
| CORONADO | 015 | ONWA | 003 | YUPITERU | 003 |
| CRAIG | 003, 005, 061, 082, 083, 084 | PANASONIC | 006, 007, 008, 009, 054, 066, 067, 073, 074 | ZENITH | 058, 079 |
| | | | | ZONDA | 001 |
| CROSLEX | 062 | PENNEY | 018 | DONGYANG | 003, 054 |
| CROWN | 003 | PHILCO | 003, 015, 017, 018, 048, 054, 059, 062, 069, 090 | LOWE | 054 |
| CURTISMATES | 059, 061, 063 | | | FINLUX | 054, 109, 114 |
| CXC | 003 | PHILIPS | 015, 017, 018, 040, 048 054, 062, 072, 112, 114, 117, 118 | YOKO | 054 |
| DAEWOO | 002, 003, 004, 015,016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 032, 034, 035, 036, 040, 048, 059, 090, 099, 100 | | | LOEWE OPTA | 054, 114 |
| | | | | PHONOLA | 054, 112, 114 |
| | | PIONEER | 063, 066, 080, 091 | RADIOLA | 054, 112 |
| | | PORTLAND | 015, 018, 059 | SCHNEIDER | 054 |
| | | PROTON | 040 | AKAI | 103 |
| | | QUASAR | 006, 066, 067 | GRUNDIG | 108, 109, 113, 119, 120, 121 |
| DAYTRON | 040 | RADIO SHACK | 017, 048, 056, 060, 061, 075 | | |
| DYNASTY | 003 | | | BLAUPUNKT | 108 |
| EMERSON | 003, 015, 040, 046, 059, 061, 064, 082, 083, 084, 085 | RCA/PROSCAN | 018, 059, 067, 076, 077 078, 092, 093, 094 | SIEMENS | 108 |
| | | | | CGE | 113 |
| | | REALISTIC | 003, 019 | IMPERIAL | 113 |
| FISHER | 019, 065, 103 | SAMPO | 040 | MIVAR | 113 |
| FUNAI | 003 | SAMSUNG | 000, 015, 016, 017, 040, 043, 046, 047, 048, 049, 054, 059, 060, 098 | SABA | 114 |
| FUTURETECH | 003 | | | BANG&OLUFSEN | 114 |
| GENERAL ELECTRIC(GE) | 006, 040, 056, 059, 066, 067, 068 | | | BRIONVEGA | 114 |
| | | SANYO | 019, 061, 065, 101, 102, 103, 104 | FORMENTI | 114 |
| HALL MARK | 040 | | | METZ | 114 |
| HITACHI | 015, 018, 050, 059, 069 | SCOTT | 003, 040, 060, 061 | WEGA | 114 |
| INKEL | 045 | SEARS | 015, 018, 019 | RADIOMARELLI | 114 |
| JC PENNY | 056, 059, 067, 086 | SHARP | 015, 057, 064, 101, 105, 106, 115 | SINGER | 114 |
| JVC | 070 | | | SINUDYNE | 114 |
| KTV | 059, 061, 087, 088 | SIGNATURE 2000(M.WARDS) | 057, 058 | TELEFUNKEN | 116 |
| KEC | 003, 015, 040 | SONY | 050, 051, 052, 053, 055, 101 | | |
| KMC | 015 | | | | |
| LG(GOLDSTAR) | 001, 015, 016, 017, 037, 038, 039, 040, 041, 042, 043, 044, 054, 086 | SOUNDESIGN | 003, 040 | | |
| | | SPECTRICON | 001 | | |
| | | SSS | 018 | | |

# Operating your VCR (DVD) with Remote Control




**1** Press **MODE** button to make VCR indicator on the remote control flash.

- If you operate DVD, press Device Select button to make DVD indicator on the remote control flash.

**2** Press **POWER(⏻/I)** button to turn on the VCR (DVD).

**3** Point the remote control toward the VCR (DVD).

**4** While holding down **POWER(⏻/I)** button, enter the code corresponding to your brand of VCR (DVD).

- If the code matches the VCR (DVD)'s code, the VCR (DVD) will be turned off.
- If there is more than one code listed for your VCR (DVD) in the table, enter one at a time to determine which code works.

**5** If VCR (DVD) is turned on or off when you press the power button of the remote controller, the setting is completed.

- You can use VCR (DVD) POWER, VOLUME, PLAY, PAUSE, STOP, SKIP and Numeric button (0~9).

**Note**

- The remote control may not work on some brands of VCR (DVD)s. Also, some operations may not be possible depending on your brand of VCR (DVD).
- The remote control will work with Samsung VCRs (DVDs) by default.

## VCR Brand Code List

| Brand | Code Number |
|---|---|
| ADMIRAL(M.WARDS) | 043,106 |
| AWIA | 044,045,046 |
| AKAI | 088,089,090 |
| ANAM | 001,002,003,004,005,033 |
| AOC | 091 |
| AUDIO DYNAMIC | 019,047,092 |
| BELL & HOWELL(M.WARDS) | 048,093 |
| BROKSONIC | 092,094,095 |
| CANON | 001,033,049,091 |
| CAPEHART | 011 |
| CITIZEN | 050 |
| CRAIG | 050,072,096 |
| CRITERION | 051 |
| CURTIS MATHES | 001,031,032,033,044,091 |
| DAEWOO | 006,007,008,009,010,011,012,013,014,015,016,017,018,046,051,091 |
| DAYTRON | 011 |
| DBX | 019,047,052,092 |
| EMERSON | 025,031,032,044,046,094,095,097,098,099 |
| FISHER | 009,048,053,054,055,100 |
| FUNAI | 044 |
| GENERAL ELECTRIC(GE) | 001,031,032,033,056,091 |
| GO VIDEO | 059,060,061 |
| HARMAN KARDON | 019 |
| HITACHI | 020,021,049,054,062,100 |
| HQ | 051 |
| INSTANT REPLAY | 001,033,049,091 |
| JCL | 001,033 |
| JCP | 025 |
| JC PENNY | 047,048,052,062,091,092 |
| JVC | 001,033,047,052,063,064,065,092 |
| KENWOOD | 047,050,052,092 |
| LG(GOLDSTAR) | 019,020,021,022,023,024,025,026,027,028,029,030,050 |
| LXI(SEARS) | 020,025,044,048,050,053,054,055,062,100 |
| MAGIN | 072 |
| MAGNAVOX | 001,031,032,033,049,066,067,091 |
| MARANTZ | 001,019,033,047,052,092,110 |
| MARTA | 025,050 |
| MEI | 001,033 |
| MEMOREX | 001,025,033,054,091,100 |
| MINOLTA | 020,021,062 |
| MITSUBISHI/MGA | 068,069,070,101,102 |
| MTC | 072 |
| MULTITECH | 044,057,069 |
| NEC | 019,047,052,057,092 |
| OLYMPIC | 049,091 |
| OPTIMUS | 101 |
| ORION | 103 |
| PANASONIC | 001,004,033,049,067,091,107 |
| PENNEY | 019,020,072 |
| PENTAX | 001,020,021,033,062 |
| PHILCO | 001,033,046,049,091,094 |
| PHILIPS | 001,030,033,049,050,066,091 |
| PILOT | 025 |
| PIONEER | 049 |
| PORTLAND | 011 |
| QUASAR | 001,033,049,067,091,107,108 |
| RICO | 036 |
| RCA/PROSCAN | 001,020,021,031,032,033,049,051,062,066,070,091,104 |
| REALISTIC | 001,009,025,033,044,048,054,091,101,105 |
| SAMSUNG | 000,006,031,032,057,058,071,072,073,074,075,076,077,078,079,080,081 |
| SANYO | 008,009,046,048,050,054,058,093,100 |
| SANSUI | 092 |
| SCOTT | 006,051,054,057,069,070,100,101 |
| SEARS | 020,021,025 |
| SHARP | 043,105,106 |
| SINGER | 096 |
| SIGNATURE2000(M.WARDS) | 043,044,054,100,106 |
| SHINTOM | 096 |
| SONY | 034,035,036,037,038,039,040,041,042,082,083,084,085,086 |
| STS | 020 |
| SYLVANIA | 001,033,044,049,066,091 |
| SYMPHONIC | 044 |
| TANDY | 009 |
| TASHIRO | 050 |
| TATUNG | 047,052,092 |
| TEAC | 044,047,052,092 |
| TECHNICS | 001,033,049,091 |
| TEKNIKA | 001,025,033 |
| TOSHIBA | 006,051 |
| TOTEVISION | 025,072 |
| TAEKWANG | 087 |
| UNITECH | 072 |
| VECTOR RESEARCH | 019 |
| VIDEO CONCEPTS | 019 |
| VIDEOSONIC | 072 |
| WARDS | 001,020,031,032,033,043,050,054,072,100,105,106,109 |
| YAMAHA | 019,047,048,052,092, |
| ZENITH | 019,047,048,052,092 |

## DVD Brand Code List

| Brand | Code Number |
|---|---|
| DENON | 003,032 |
| DOONOON | 019 |
| DMTECH | 017 |
| FISHER | 002 |
| GE | 006 |
| HARMAN/KARDON | 012 |
| JVC | 010,013 |
| KENWOOD | 008 |
| LG | 001 |
| MAGNAVOX | 004 |
| MITSUBISHI | 005,016 |
| ONKYO | 004,014 |
| OPTIMUS | 011 |
| PANASONIC | 021 |
| PROSCAN | 006 |
| PHILIPS | 004,023 |
| PIONEER | 007,011,022,025 |
| RCA | 006 |
| SAMSUNG | 000,027 |
| SANYO | 002 |
| SONY | 015, 020 |
| THETA DIGITAL | 011 |
| TOSHIBA | 004, 018 |
| YAMAHA | 009, 033 |
| ZENITH | 004, 024 |
| TAEGWANG | 026 |
| PS2 | 028 |
| X-BOX | 029 |
| APEX | 030 |
| MARANTZ | 031 |

# Before Calling for Service

| Symptom | Check | Remedy |
|---|---|---|
| Can't turn it on. | • Is the power code plugged into the outlet? | • Connect the power plug to the outlet. |
| It does not work when the button is pressed. | • Is there static electricity in the air? | • Disconnect the power plug and connect it again. |
| Sound is not produced. | • Are the speaker and external component connected properly?<br>• Does the Mute function work?<br>• Is the volume set to minimum?<br>• Is the speaker setup selected to NONE? | • Properly connect it.<br>• Press Mute button to cancel the function.<br>• Adjust the volume.<br>• Refer to pages 11~12 to select LARGE, SMALL or YES. |
| Picture does not appear when the function is selected. | • Isn't the external component connected properly? | • Properly connect it. |
| Remote controller does not work. | • Are the batteries exhausted?<br>• Is the distance between remote control and main unit proper? | • Replace with new batteries.<br>• Operate at close distance. |
| The sound from each device is changed during stereo playback. | • Is the left/right speaker or left/right input/output code connected properly? | • Check the left/right channel and properly connect it. |
| Can't receive broadcasting. | • Is AM or FM antenna connected properly? | • Properly connect the antenna.<br>• If the input strength of antenna connector is weak, install the FM antenna in a place with good reception. |
| There is no sound from surround speaker. | • Is the surround speaker connected properly?<br>• Is S.SPK (Surround) set to NONE in Speaker Setup?<br>• Is Surround Mode selected to Stereo? | • Refer to pages 11~12 to connect it properly.<br>• Refer to pages 11~12 to select LARGE or SMALL.<br>• Refer to pages 27~38 to select other Surround Mode. |
| There is no sound from center speaker | • Is the center speaker connected properly?<br>• Is C.SPK (Center) selected to NONE in Speaker Setup?<br>• Is the Surround Mode selected to Stereo? | • Refer to pages 9~10 to connect it properly.<br>• Refer to pages 11~12 to select LARGE or SMALL.<br>• Refer to pages 27~38 to select other Surround Modes. |



| Symptom | Check | Remedy |
|---|---|---|
| There is no sound from surround center speaker | • Is the rear center speaker connected properly?<br>• Is the SB SPK (Surround Center) selected to NONE in Speaker Setup?<br>• Is Surround Mode set to EX/ES? | • Refer to pages 9~10 to connect it properly.<br>• Refer to pages 11~12 to select LARGE or SMALL.<br>• Refer to pages 35~36 to set Surround Mode to EX/ES. |
| Can't select EX/ES Mode. | • Is SB SPK (Surround Center) selected to NONE in Speaker Setup?<br>• Is the input signal selected properly? | • Refer to pages 11~12 to select LARGE or SMALL.<br>• Use 5.1 channel external component. |
| Can't select Dolby Pro Logic IIx Mode. | • Is the input signal selected properly? | • Select 2 channel Dolby Digital, PCM, and Analog input signal. |
| Can't select NEO:6 Mode. | • Is the input signal selected properly? | • Use PCM and Analog input signal. |
| There is no sound when playing DTS encoded DVD and CD. | • Is analog input selected? | • Check whether digital external component is properly connected and refer to page 19 to select the digital input. |



## Product Protection Function

### Heat Protection

• Protection function works if the main unit is overheated or power transformer is overheated.
appears in the display when the "PROTECTION" function works.
- If speaker terminal is shorted
- If speaker cord is shorted
If there is no problem when you turn it on again after turning it off, PROTECTION mark will disappear on the display and the unit will work properly.

**Note**

• If PROTECTION appears on the display, check whether speaker terminal is shorted and then turn on the device.

# Specifications



| | | |
|---|---|---|
| GENERAL | Standby Power Consumption | 0.9W |
| | Power Consumption | 95W |
| | Weight | 4.2 kg |
| | Dimensions (W x H x D) | 429 x 66 x 348 mm |
| | Operating Temperature Range | +5°C~+35°C |
| | Operating Humidity Range | 10%~75% |
| FM TUNER | Frequency Response | 87.5~108.0MHz |
| | Usable Sensitivity | 12dBf |
| | S/N Ratio | MONO/STEREO 55/55dB |
| | Distortion | MONO/STEREO 0.3/0.8% |
| | Stereo Separation | 30dB |
| | Tuner Output Level | 1KHz, 75KHz Dev |
| AM TUNER | Frequency Response | 522~1611KHz |
| | S/N Ratio | 40dB |
| | Usable Sensitivity | 60dBμV/m(Loop Antenna) |
| | Distortion | 2% (MOD:80%) |
| AMPLIFIER | Rated Output | 20Hz~20KHz/THD = 10% |
| | Front Speaker(Left+Right) | 4 Ω 100W/CH |
| | Center Speaker | 4 Ω 100W/CH |
| | Surround Speaker(Left+Right) | 4 Ω 100W/CH |
| | Surround Back Speaker | 4 Ω 100W/CH |
| | Subwoofer Speaker | 8 Ω 150W/CH |
| | Input Sensitivity/Impedance | 1V/47kΩ |
| | S/N Ratio(Analog Input/6.1CH Analog Input) | 80dB |
| | Separation(1KHz) | 60dB |
| FREQUENCY RESPONSE | Analog Input/6.1CH Analog Input | 20Hz~20KHz(±3dB) |
| | Digital Input/96KHz PCM | 20Hz ~44KHz(±3dB) |
| VIDEO OUTPUT | TV Format | NTSC/PAL |
| | Input Level/Impedance | 1Vp-p/75 Ω |
| | Output Level/Impedance | 1Vp-p/75 Ω |
| | Video Frequency Response | 5Hz to 10KHz(-3dB) |
| | Component Video Frequency Response | 5Hz to 40KHz(-3dB) |
| | S/N Ratio | 60dB |

❋ S/N ratio, distortion, separation and usable sensitivity are based on measurement using AES-17 filter.

| | | | | |
|---|---|---|---|---|
| SPEAKERS | Speaker system | Front / Surround / Surround Back | Center | Subwoofer speaker |
| | Impedance | 4Ω x 5 | 4Ω | 8Ω |
| | Rated input | 100W | 100W | 150W |
| | Maximum input | 200W | 200W | 300W |
| | Dimensions (W x H x D) | 91 x 135 x 98.5 mm | 200 x 107 x 100 mm | 305 x 345 x 391 mm |
| | Weight | 0.62 Kg | 0.77 Kg | 13 Kg |

## Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

| Region | Country | Customer Care Center ☎ | Web Site |
|---|---|---|---|
| North America | CANADA | 1-800-SAMSUNG (7267864) | www.samsung.com/ca |
| | MEXICO | 01-800-SAMSUNG (7267864) | www.samsung.com/mx |
| | U.S.A | 1-800-SAMSUNG (7267864) | www.samsung.com |
| Latin America | ARGENTINE | 0800-333-3733 | www.samsung.com/ar |
| | BRAZIL | 0800-124-421 | www.samsung.com/br |
| | CHILE | 800-726-7864(SAMSUNG) | www.samsung.com/cl |
| | COSTA RICA | 0-800-507-7267 | www.samsung.com/latin |
| | ECUADOR | 1-800-10-7267 | www.samsung.com/latin |
| | EL SALVADOR | 800-6225 | www.samsung.com/latin |
| | GUATEMALA | 1-800-299-0013 | www.samsung.com/latin |
| | JAMAICA | 1-800-234-7267 | www.samsung.com/latin |
| | PANAMA | 800-7267 | www.samsung.com/latin |
| | PUERTO RICO | 1-800-682-3180 | www.samsung.com/latin |
| | REP. DOMINICA | 1-800-751-2676 | www.samsung.com/latin |
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| | VENEZUELA | 1-800-100-5303 | www.samsung.com/latin |
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| | FINLAND | 09 693 79 554 | www.samsung.com/fi |
| | FRANCE | 08 25 08 65 65 (0,15€/Min) | www.samsung.com/fr |
| | GERMANY | 01805 - 121213 (€ 0,12/Min) | www.samsung.de |
| | HUNGARY | 06 40 985 985 | www.samsung.com/hu |
| | ITALIA | 199 153 153 | www.samsung.com/it |
| | LUXEMBURG | 02 261 03 710 | www.samsung.lu |
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| | NORWAY | 231 627 22 | www.samsung.com/no |
| | POLAND | 0 801 801 881 | www.samsung.com/pl |
| | PORTUGAL | 80 8 200 128 | www.samsung.com/pt |
| | SLOVAKIA | 0850 123 989 | www.samsung.com/sk |
| | SPAIN | 902 10 11 30 | www.samsung.com/es |
| | SWEDEN | 08 585 367 87 | www.samsung.com/se |
| | U.K | 0870 242 0303 | www.samsung.com/uk |
| CIS | RUSSIA | 8-800-200-0400 | www.samsung.ru |
| | UKRAINE | 8-800-502-0000 | www.samsung.com/ur |
| Asia Pacific | AUSTRALIA | 1300 362 603 | www.samsung.com/au |
| | CHINA | 800-810-5858, 010- 6475 1880 | www.samsung.com.cn |
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